

FIG.1

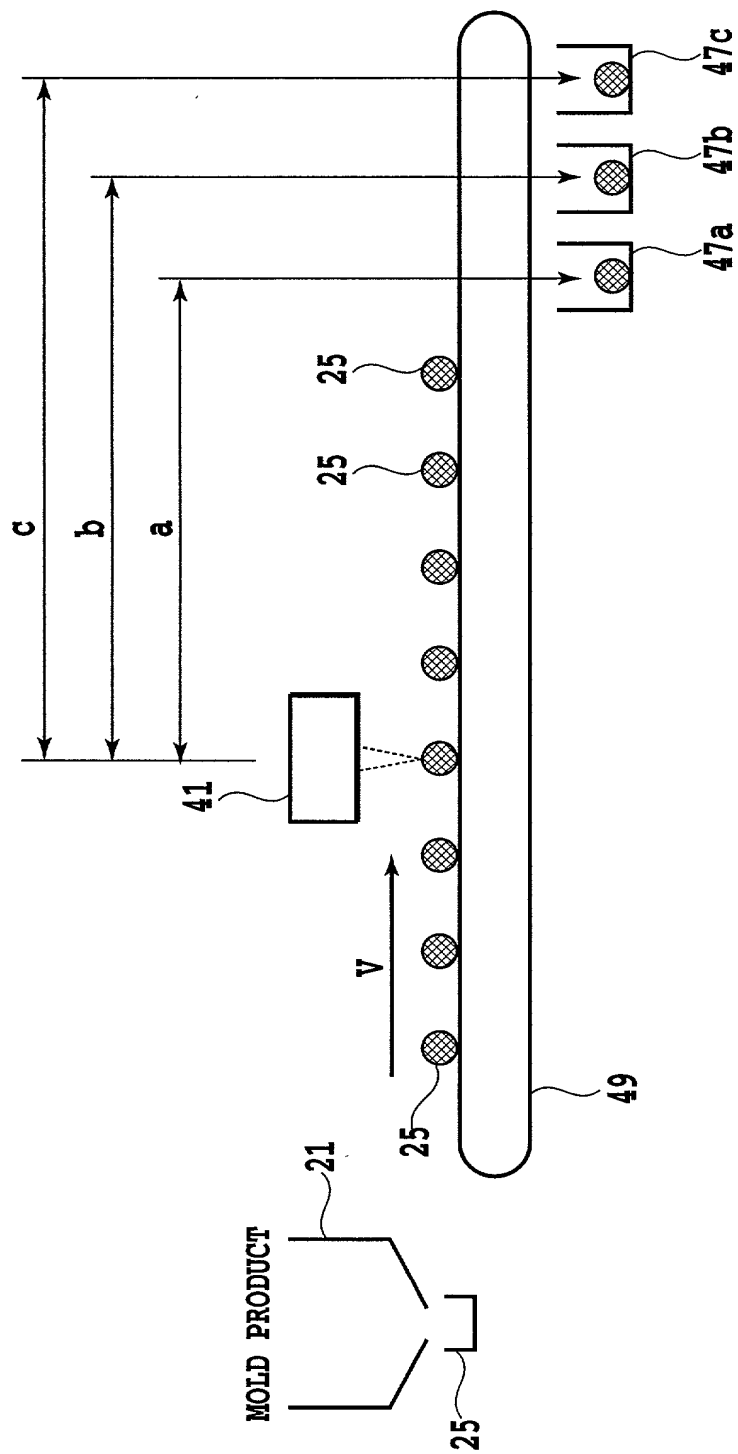


FIG.2

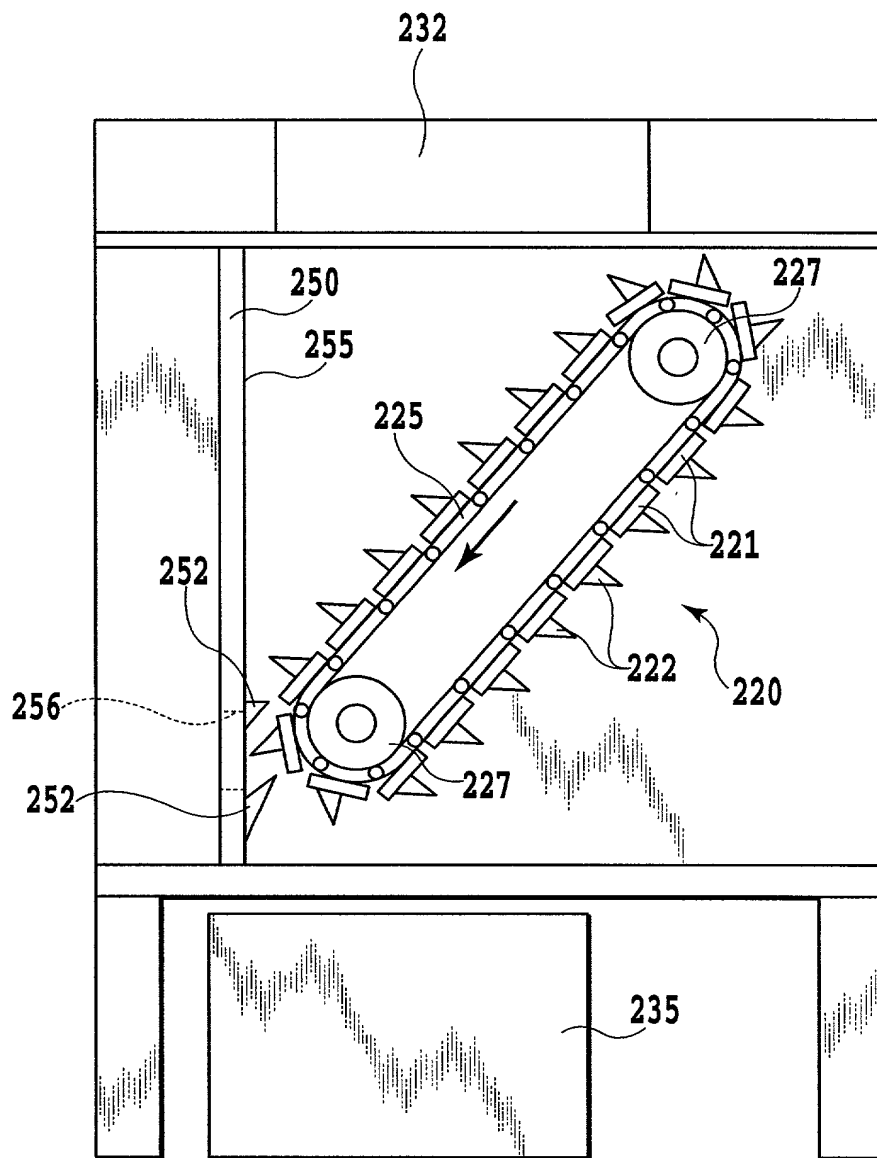


FIG.3

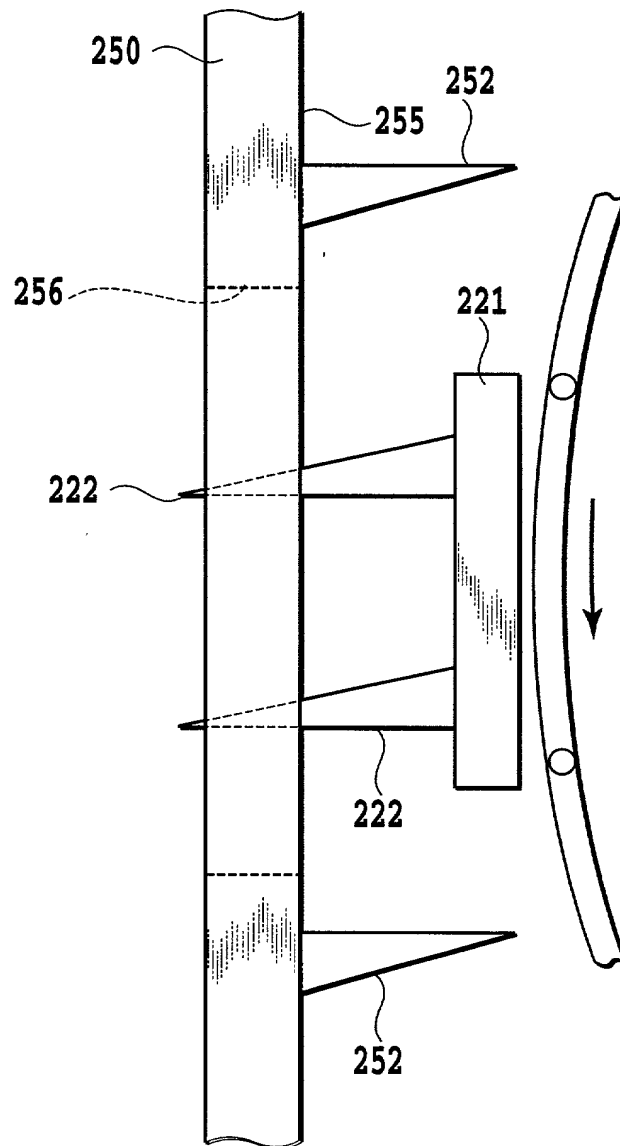


FIG.4

FIG.5A

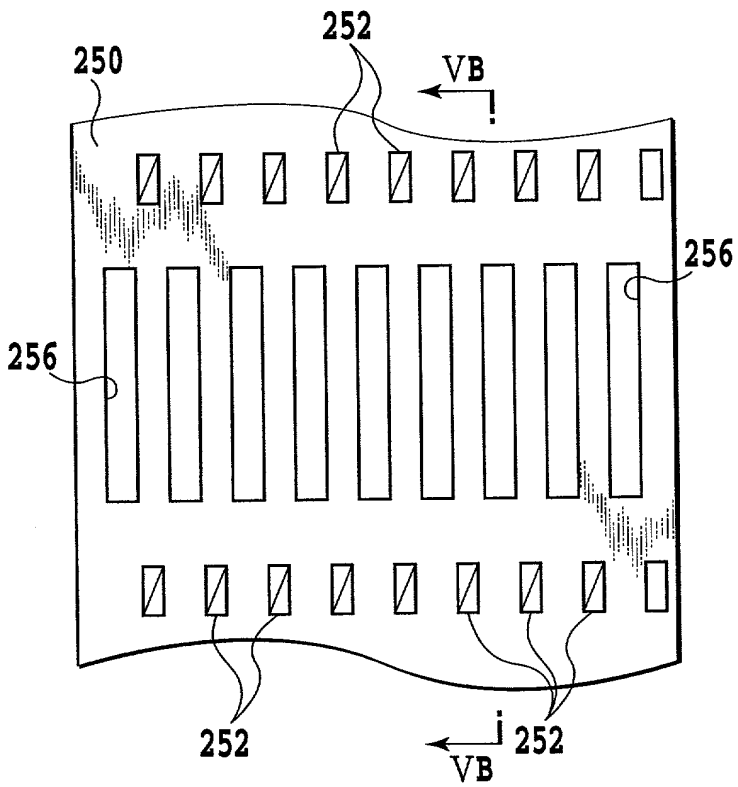


FIG.5B

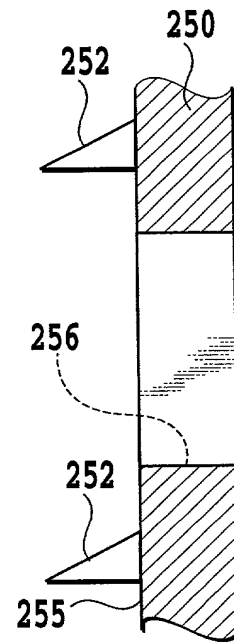


FIG.5C

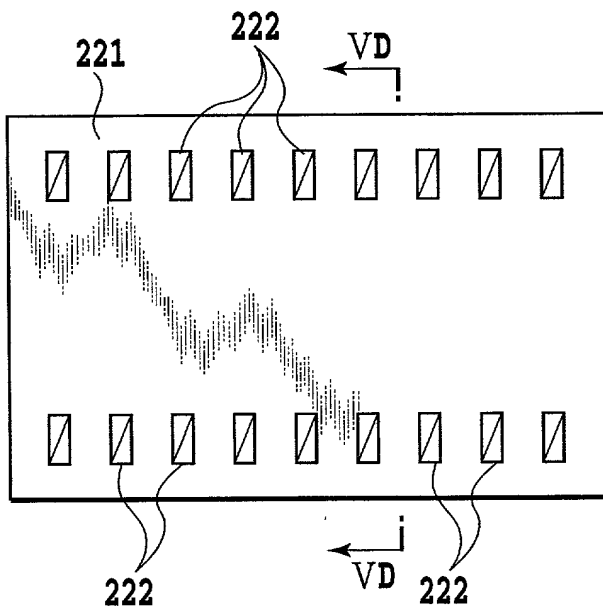
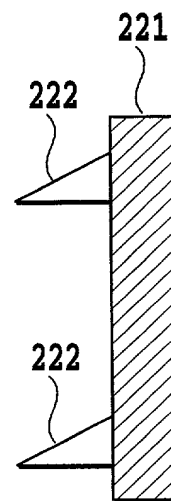


FIG.5D



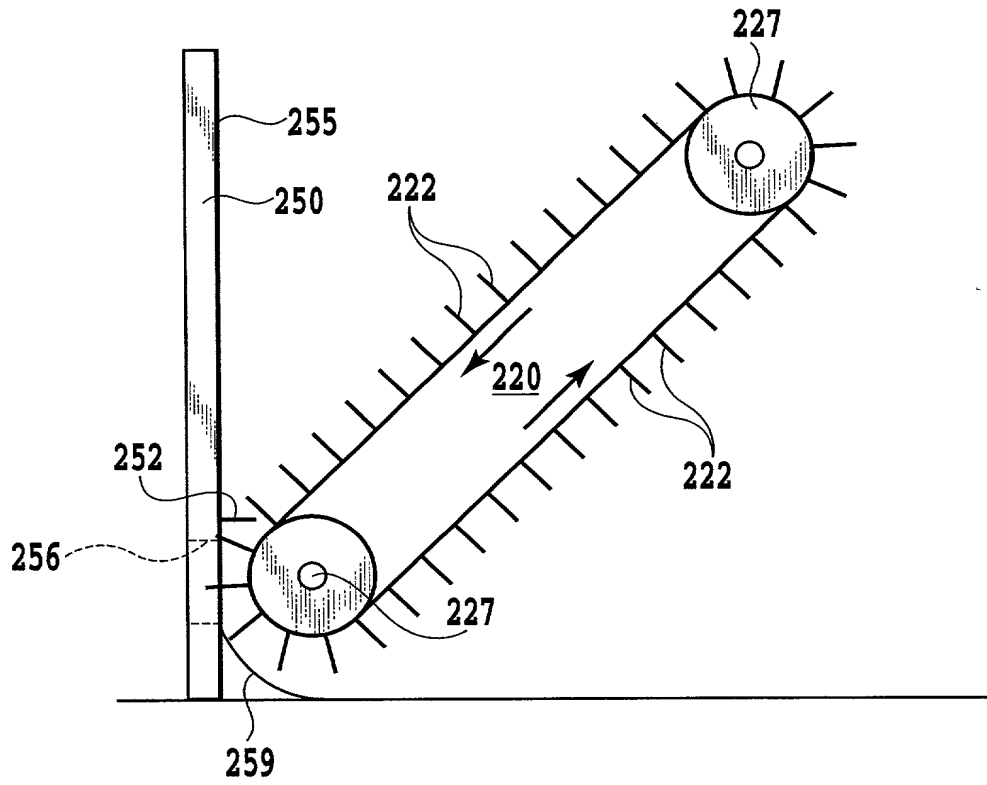


FIG.6A

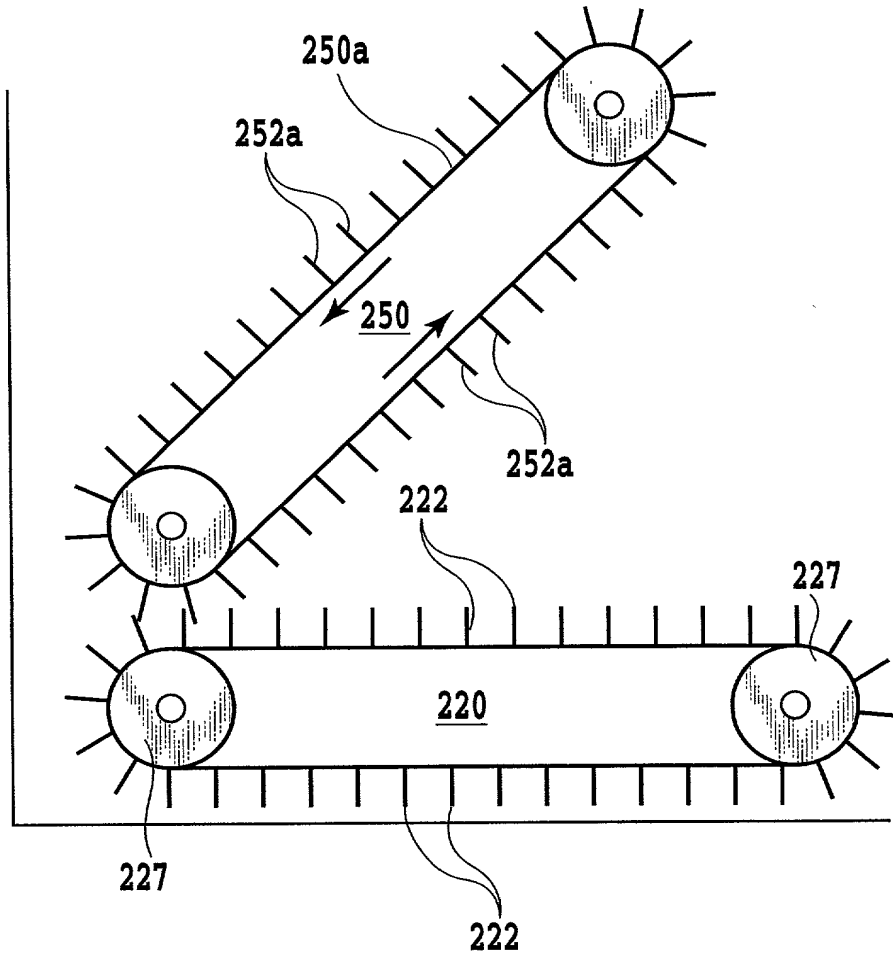


FIG.6B

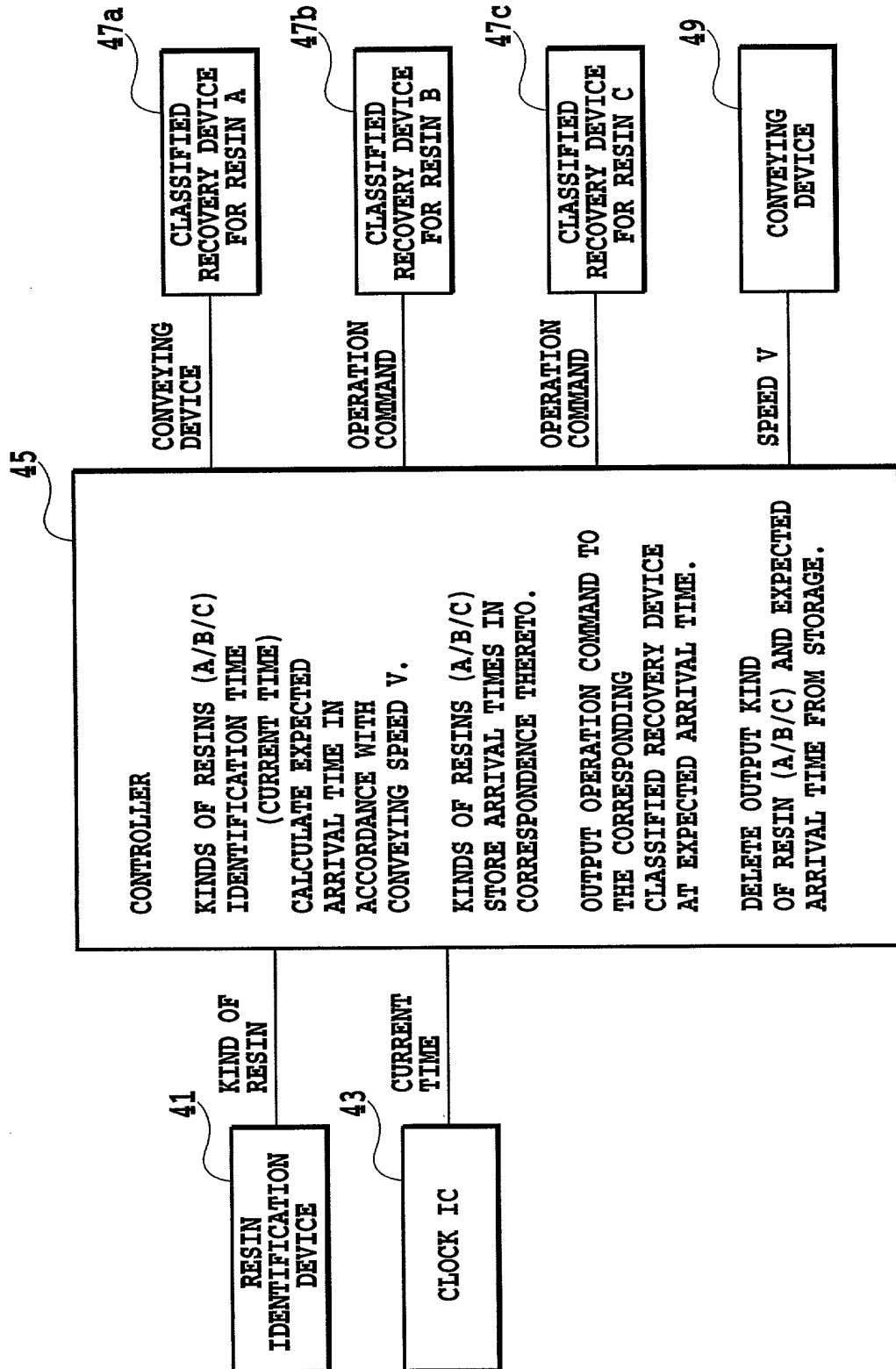


FIG.7

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CONTROL OF
IDENTIFICATION AND
CLASSIFIED RECOVERY

S01

START CONVEYING DEVICE 49

IDENTIFIED
RESULT INPUT ?

S11

NO

YES

S13

CALCULATE EXPECTED ARRIVAL
TIME BASED ON CURRENT TIME,
KIND OF RESIN, AND CONVEYING
SPEED, AND STORE THE SAME IN
CORRESPONDENCE TO BAG

CURRENT TIME = EITHER
OF EXPECTED ARRIVAL
TIMES ?

S21

NO

YES

S23

OPERATE CLASSIFIED RECOVERY
DEVICE FOR KIND OF RESIN
CORRESPONDING TO THAT
EXPECTED ARRIVAL TIME AND
RECOVER THE BAG

S25

DELETE STORED DATA OF THAT
EXPECTED ARRIVAL
TIME AND KIND OF RESIN

FIG.8

10/21-33333333

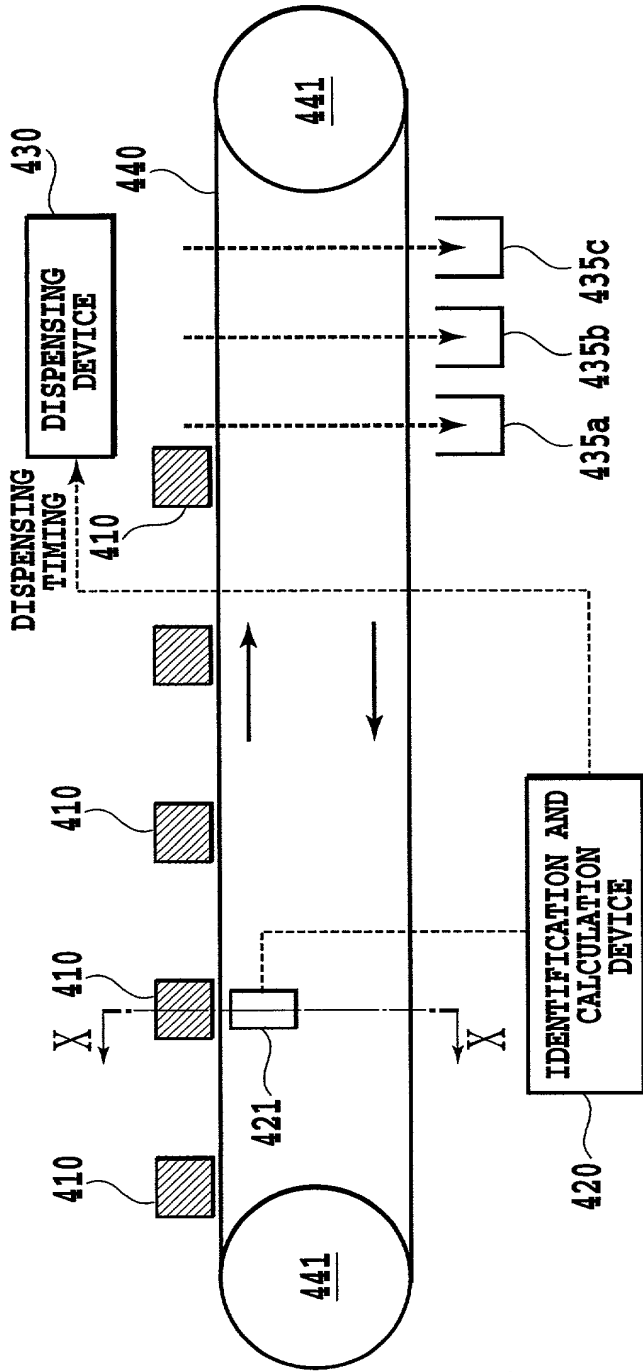


FIG. 9A

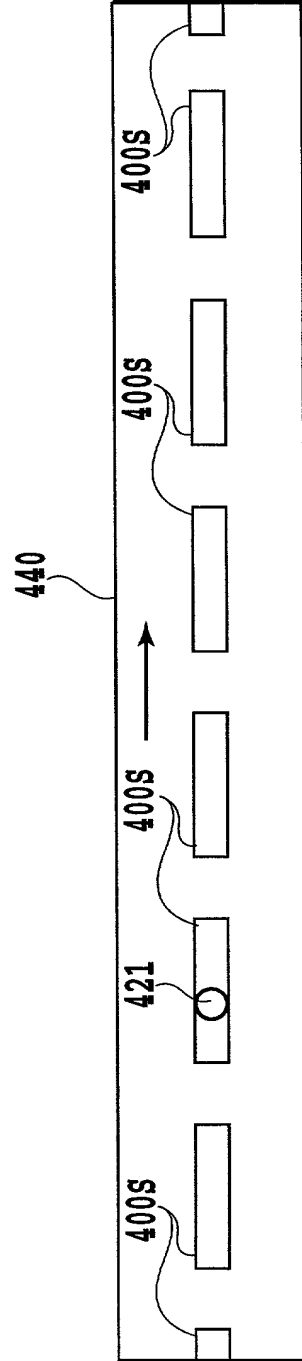


FIG. 9B

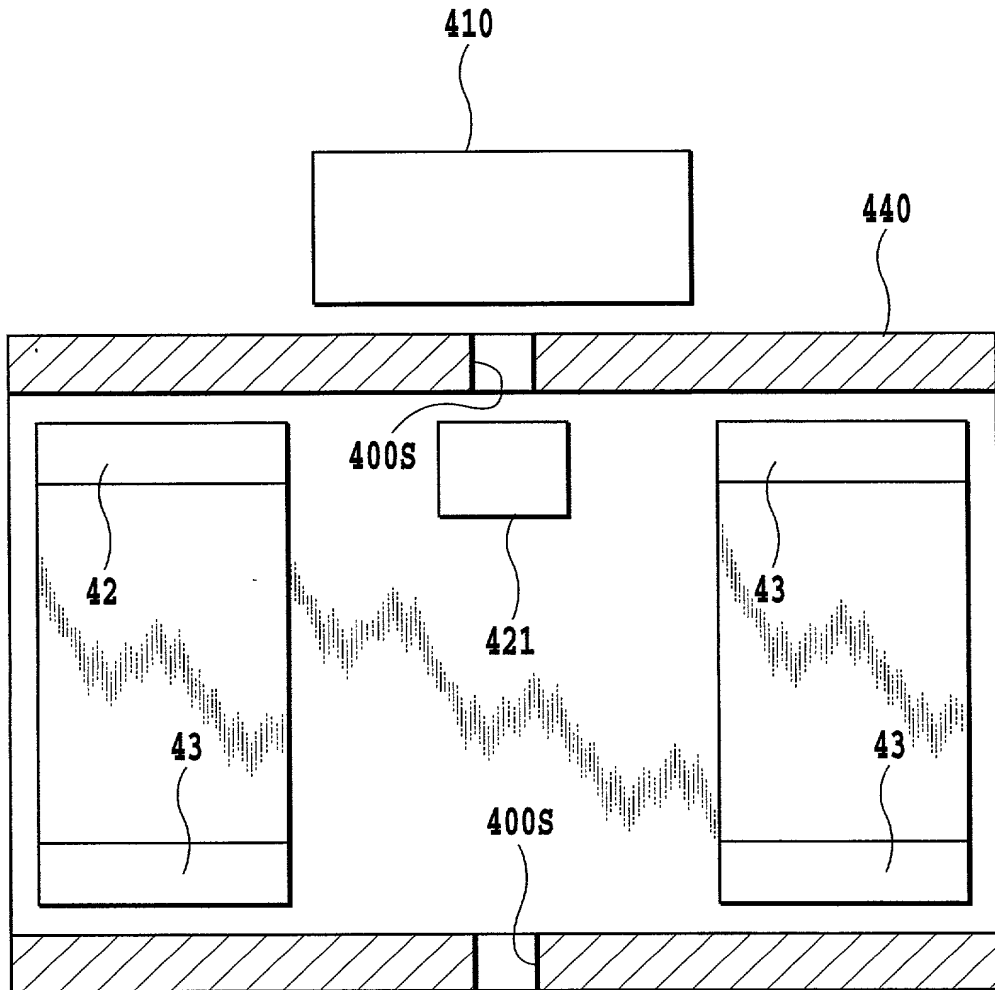


FIG.10

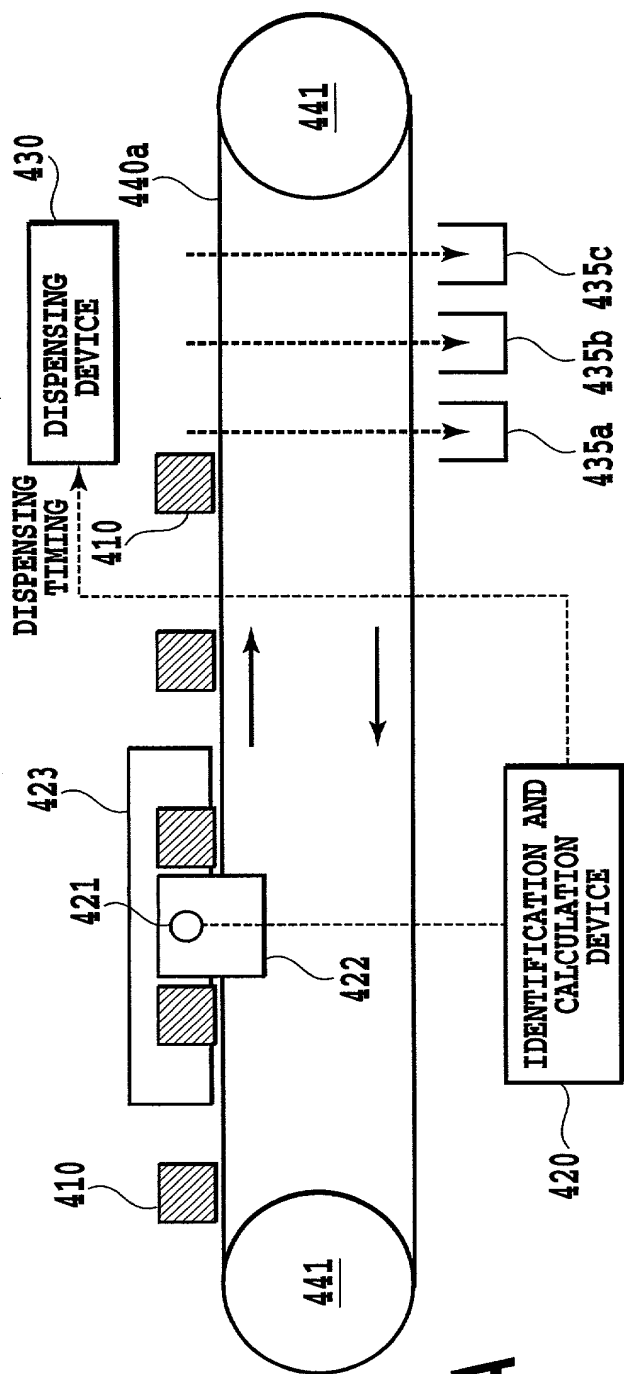


FIG. 11A

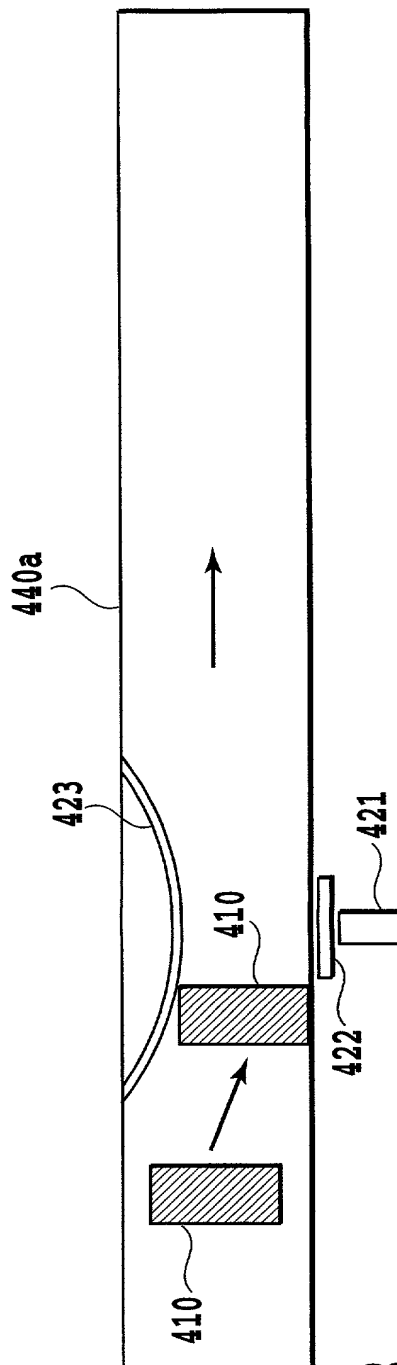


FIG. 11B

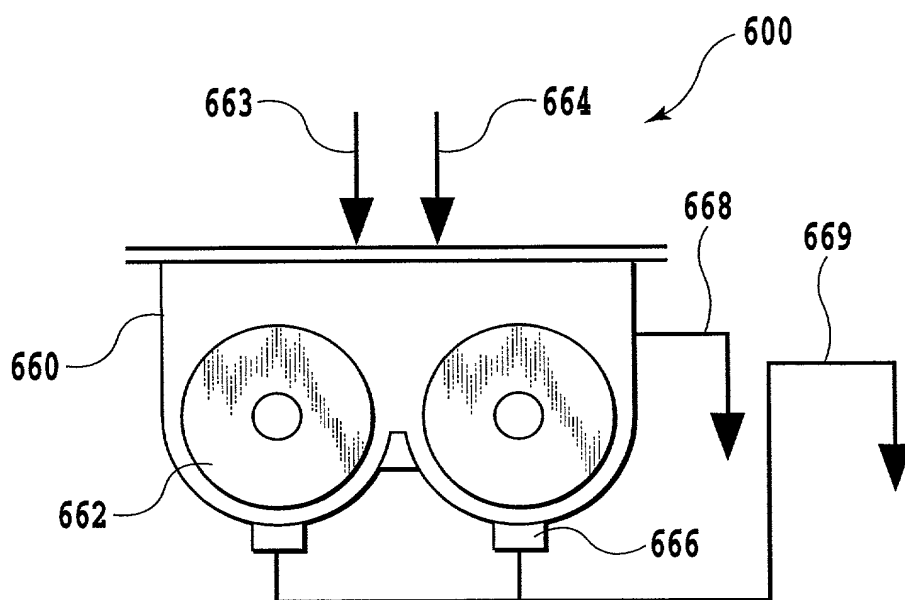


FIG.12

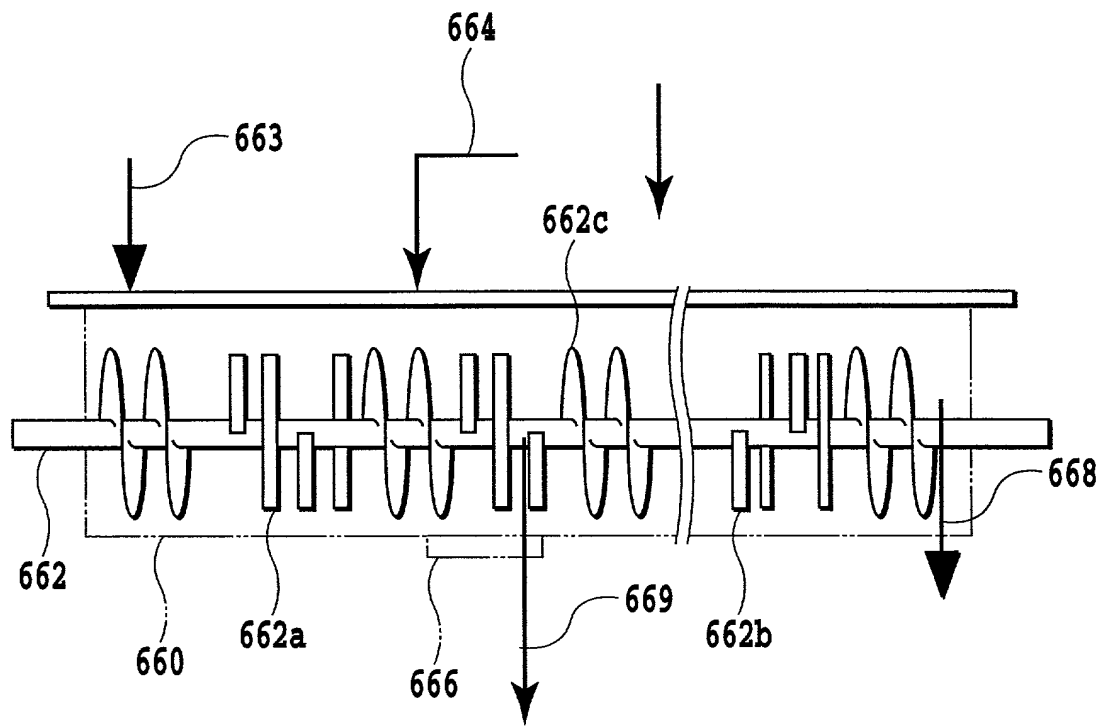


FIG.13

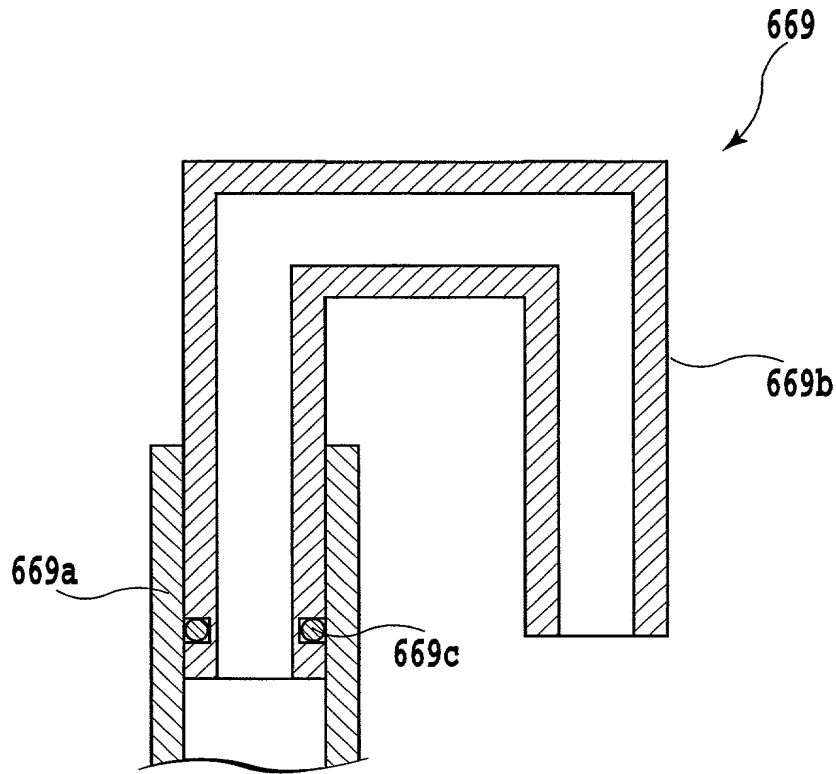


FIG.14

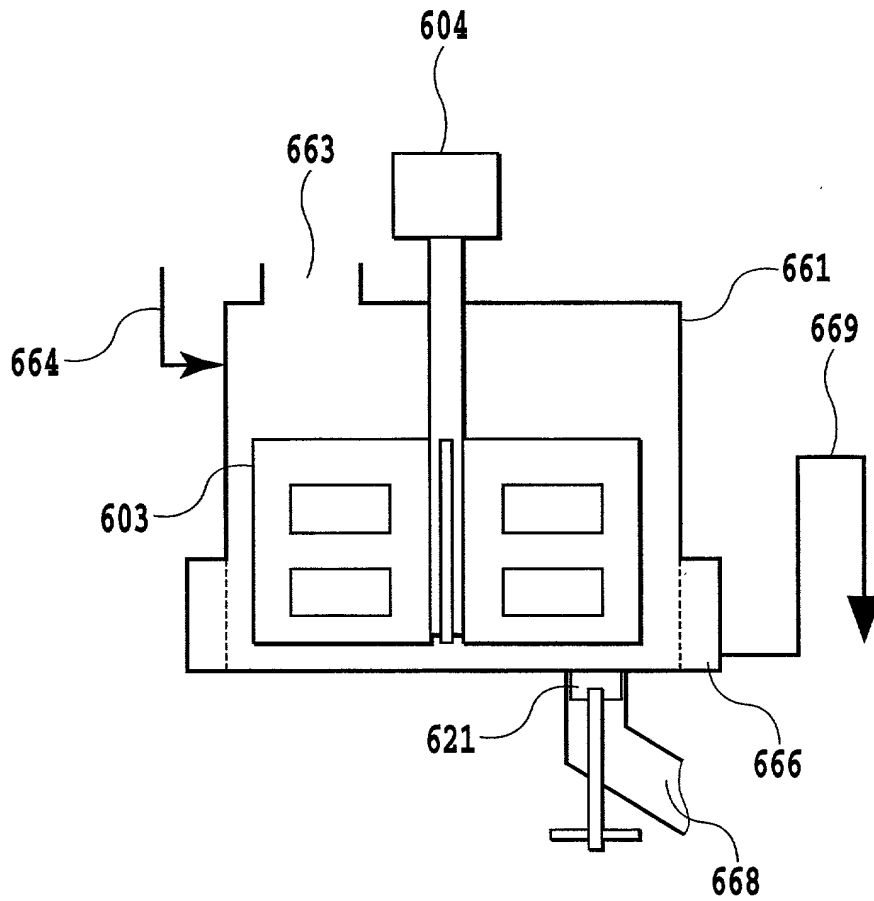


FIG.15

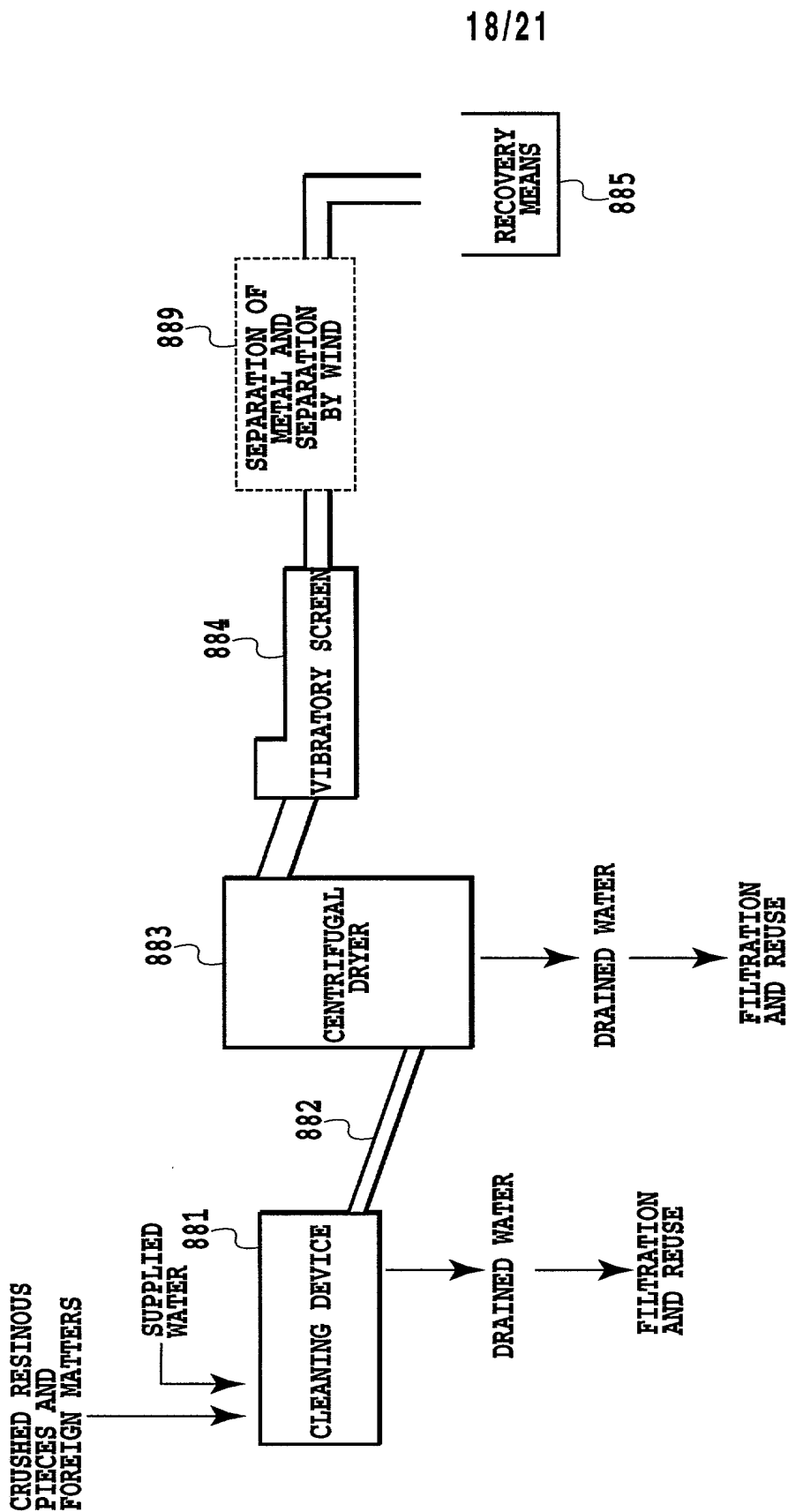


FIG.16

	EXAMPLE A	COMPARATIVE EXAMPLE A
TOTAL APPARENT VOLUME OF RESIN PARTS PRIOR TO BEING CRUSHED	130L	130L
TOTAL WEIGHT OF RESIN PARTS PRIOR TO BEING CRUSHED	11.3kg	11.3kg
BULKING DENSITY OF RESIN PARTS PRIOR TO BEING CRUSHED	0.09	0.09
BULKING DENSITY AFTER BEING CRUSHED	0.48	0.62
AVERAGE VALUE OF EQUIVALENT DIAMETERS OF CRUSHED RESINOUS PIECES	35mm	7mm
TOTAL WEIGHT OF CRUSHED RESINOUS PIECES	11.2kg	2.3kg
APPARENT VOLUME OF CRUSHED RESINOUS PIECES	23.3L	3.7L
ESTIMATION	ALL THE PARTS WERE CRUSHED TO REDUCE THEIR VOLUME	ONLY FIVE PARTS (2.3 KG) WERE CRUSHED TO FAIL THE REDUCTION OF VOLUME

FIG.17

ESTIMATION	EXAMPLE B	COMPARATIVE EXAMPLE B
TOTAL VOLUME OF RESIN PARTS PRIOR TO BEING CRUSHED (cm ³)	4500	4500
TOTAL VOLUME OF RESIN PARTS AFTER BEING CRUSHED (cm ³)	1115	1060
RATIO OF VOLUMES BETWEEN BEFORE AND AFTER BEING CRUSHED # ¹	4.0	4.2
NUMBER OF IDENTIFIED SAMPLES (PIECES)	3	ABOUT 2700# ²
TIME REQUIRED FOR THE IDENTIFICATION (min)	0.15	ABOUT 135# ³
IDENTIFIED RESULT	○	×

#1: (VOLUME OF RESIN PARTS PRIOR TO BEING
CRUSHED) / (TOTAL VOLUME OF RESIN PARTS AFTER BEING
CRUSHED)

#2: IT WAS ESTIMATED BY (WEIGHT OF RESIN PARTS
PRIOR TO BEING CRUSHED) / (STANDARD WEIGHT OF ONE
CRUSHED RESINOUS PIECE)

#3: IT WAS ESTIMATED BY (TOTAL WEIGHT OF CRUSHED
RESINOUS PIECES) / (WEIGHT OF CRUSHED RESINOUS PIECES
IDENTIFIABLE PER ONE MINUTE)

FIG.18

	EXAMPLE C	COMPARATIVE EXAMPLE C	COMPARATIVE EXAMPLE D	EXAMPLE D	COMPARATIVE EXAMPLE E	EXAMPLE E	COMPARATIVE EXAMPLE F
NUMBER OF FOREIGN MATTERS	FOREIGN MATTERS HAVING MAXIMUM LENGTH IN A RANGE FROM 0.05 TO 0.25 mm	3	—	NUMEROUS	4	4	NUMEROUS
	FOREIGN MATTERS HAVING MAXIMUM LENGTH IN A RANGE FROM 0.25 TO 0.5 mm	0		NUMEROUS	0	0	50 MORE
	FOREIGN MATTERS HAVING MAXIMUM LENGTH IN A RANGE FROM 0.5 mm OR MORE	0		50 MORE	0	0	30
NOTE		—	INOPERATIVE	LABEL PIECE LEFT	—	—	—
ESTIMATION		GOOD	NO GOOD	NO GOOD	GOOD	GOOD	NO GOOD

FIG.19